[c2]

[c3]

[c4]

[c5]

## Claims

[c1]

1. A method of adaptively controlling the speed of an automotive vehicle having a controller comprising:

detecting an object and generating an object profile;

detecting a future path of the automotive vehicle;

generating a predicted future path profile in response to said future path and

said object profile; and

inhibiting a resume speed of the automotive vehicle in response to said

predicted future path profile.

2. A method as in claim 1 further comprising continuously updating said predicted future path profile.

3. A method as in claim 2 wherein updating said predicted future path profile includes updating parameters selected from the following group comprising: object profile, yaw rate, street category, and upcoming future road paths.

4. A method as in claim 1 further comprising:
determining that said object is a stopped object;
adjusting automotive vehicle speed in relation to said stopped object; and
maintaining a safe operating distance between the automotive vehicle and said
stopped object.

5. A method as in claim 1 further comprising assuming a future road condition selected from the following group comprising: road curvature, speed category, number of lanes, and road inclination is the same as a present road condition.

[c6] 6. A method as in claim 1 wherein detecting the future path of the automotive vehicle comprises:

sensing yaw rate of the automotive vehicle and generating a yaw rate signal;
relating said yaw rate to road curvature; and
inhibiting resume speed of the automotive vehicle in response to said yaw rate signal.

[c7] 7. A method as in claim 1 wherein detecting the future path of the automotive vehicle comprises using a navigation system to generate a navigation signal

including information selected from the following group comprising: automotive vehicle position, speed category, future path of the automotive vehicle, landmark location, road curvature, overhead object location, bridge location, construction zone, number of lanes, road type, and road inclination.

[c8]

8. A method as in claim 1 wherein generating an object profile comprises storing object parameters selected from the following list comprising: relative distance from the automotive vehicle, object location relative to a road, and velocity of said object relative to the automotive vehicle velocity.

[c9]

9. A method as in claim 1 wherein generating a predicted future path profile further comprises determining object location with respect to the future path of the automotive vehicle.

[c10]

10. A method as in claim 1 wherein inhibiting the resume speed of the automotive vehicle further comprises inhibiting resume speed of the automotive vehicle while a present parameter selected from the following group comprising: road curvature, speed category, number of lanes, and road inclination remains constant.

[c11]

11. A method of adaptively controlling the speed of an automotive vehicle having a controller comprising: sensing yaw rate of the automotive vehicle; generating a yaw rate signal; and inhibiting resume speed of the automotive vehicle in response to said yaw rate signal.

[c12]

12. A method as in claim 11 further comprising:

detecting an object and generating an object profile;

detecting a future path of the automotive vehicle and generating a predicted future path profile;

assuming a future road condition to be the same as a present road condition; and inhibiting resume of the automotive vehicle in response to said object profile, said assumption, and said predicted future path profile.

[c17]

- [c13] 13. A method as in claim 11 wherein detecting a future path of the automotive vehicle is in response to a navigation signal.
- [c14] 14. A method as in claim 11 further comprising adjusting the automotive vehicle speed in response to said object profile and said predicted future path profile to avoid a stopped object.
- [c15] 15. A method as in claim 11 wherein said controller in response to said object profile and said predicted future path profile signals a warning system.
- [c16] 16. A control system for an automotive vehicle comprising:

  a detection system detecting an object, said detection system generating a
  object profile;

  a navigation system generating a navigation signal; and
  a controller electrically coupled to said radar system and said navigation
  system, said controller in response to said object profile and said navigation
  signal, generating a predicted future path profile and inhibiting resume speed
  of the automotive vehicle in response to said predicted future path profile.
  - 17. A system as in claim 16 wherein said controller in generating a predicted future path profile determines an object location with respect to the future path of the automotive vehicle.
- [c18] 18. A system as in claim 16 wherein said controller determines said object to be a stopped object and adjusts the speed of the automotive vehicle in relation to said stopped object.
- [c19] 19. A control system for an automotive vehicle comprising:

  a yaw rate sensor sensing yaw rate of the automotive vehicle, said yaw rate
  sensor generating a yaw rate signal; and
  a controller electrically coupled to said yaw rate sensor, said controller
  inhibiting resume speed of the automotive vehicle in response to said yaw rate
  signal.
- [c20]

  20. A system as in claim 19 further comprising:

  a radar system detecting an object, said radar system generating an object

profile; and
a navigation system generating a navigation signal;
said controller electrically coupled to said radar system and said navigation
system, said controller in response to said object profile and said navigation
signal generating a predicted future path profile and inhibiting resume speed of
the automotive vehicle in response to said predicted future path profile.